

Figure 1: Expression of the rat SM MHC -4.2 to +11.6 LacZ transgene in adult mouse SMC tissues. Extremely high expression was observed in virtually all SMC tissues with no expression in non-SMC (see histological evaluations in Fig. 3)

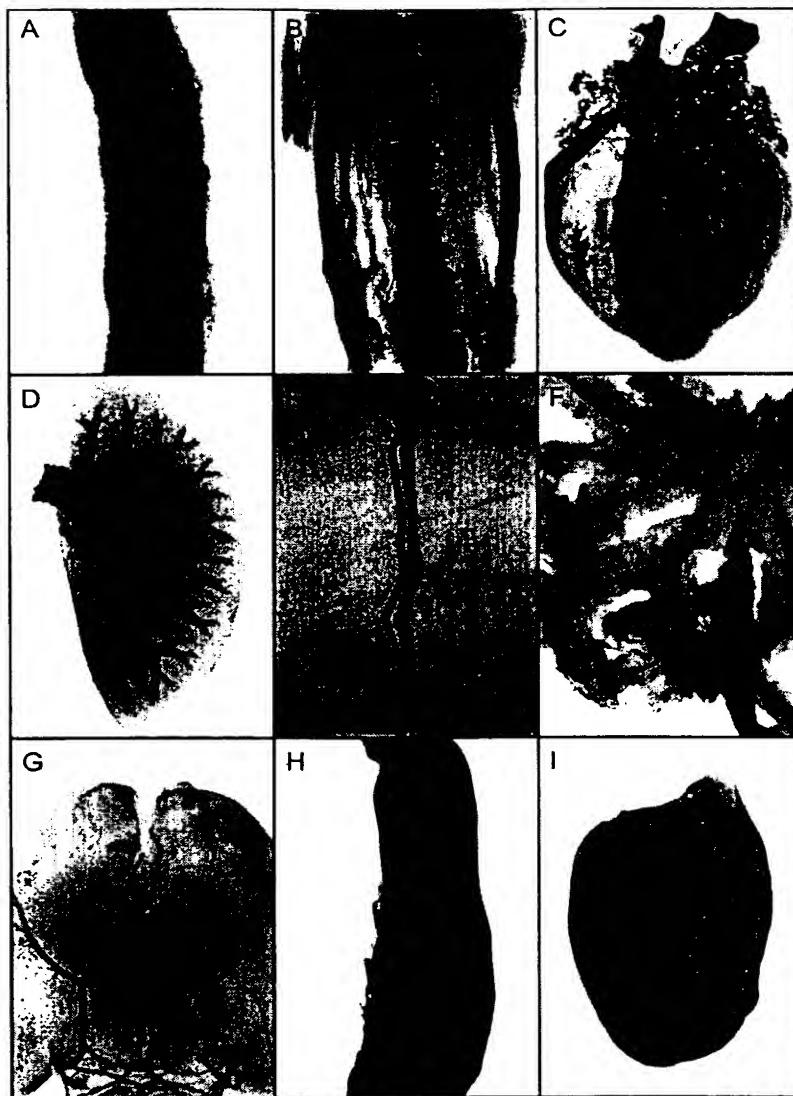


Figure 2

Histological Assessment of SM MHC- Cre Induced Gene Activation

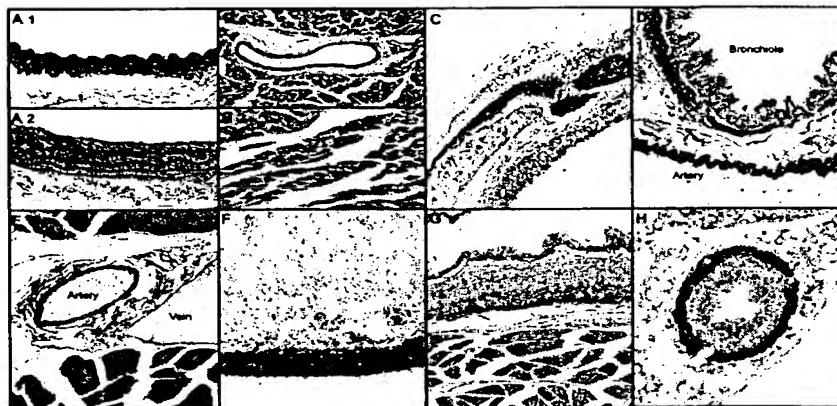


Figure 3

-4.2/+5.3::+7.5/+9 LacZ

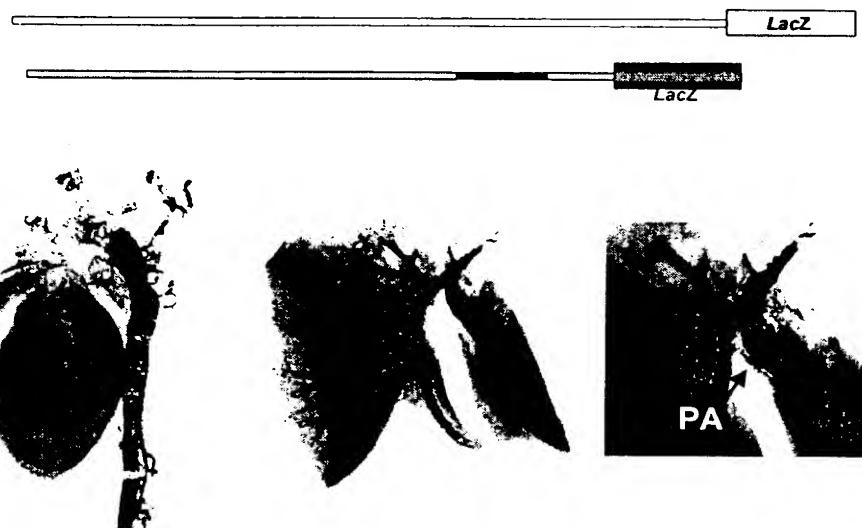


Figure 4

Expression of the -4.2 to +5.3/+7.5 to +9.0
SM MHC LacZ Transgene in Pulmonary
Arteries/Arterioles of Adult Mice

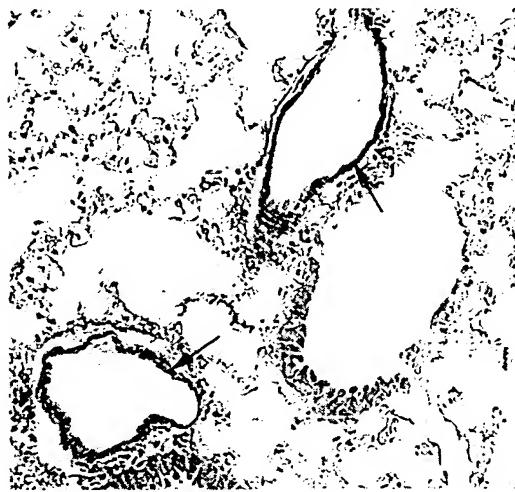


Figure 5

-4.2/+2.5::+5.3/+11.6



Figure 6

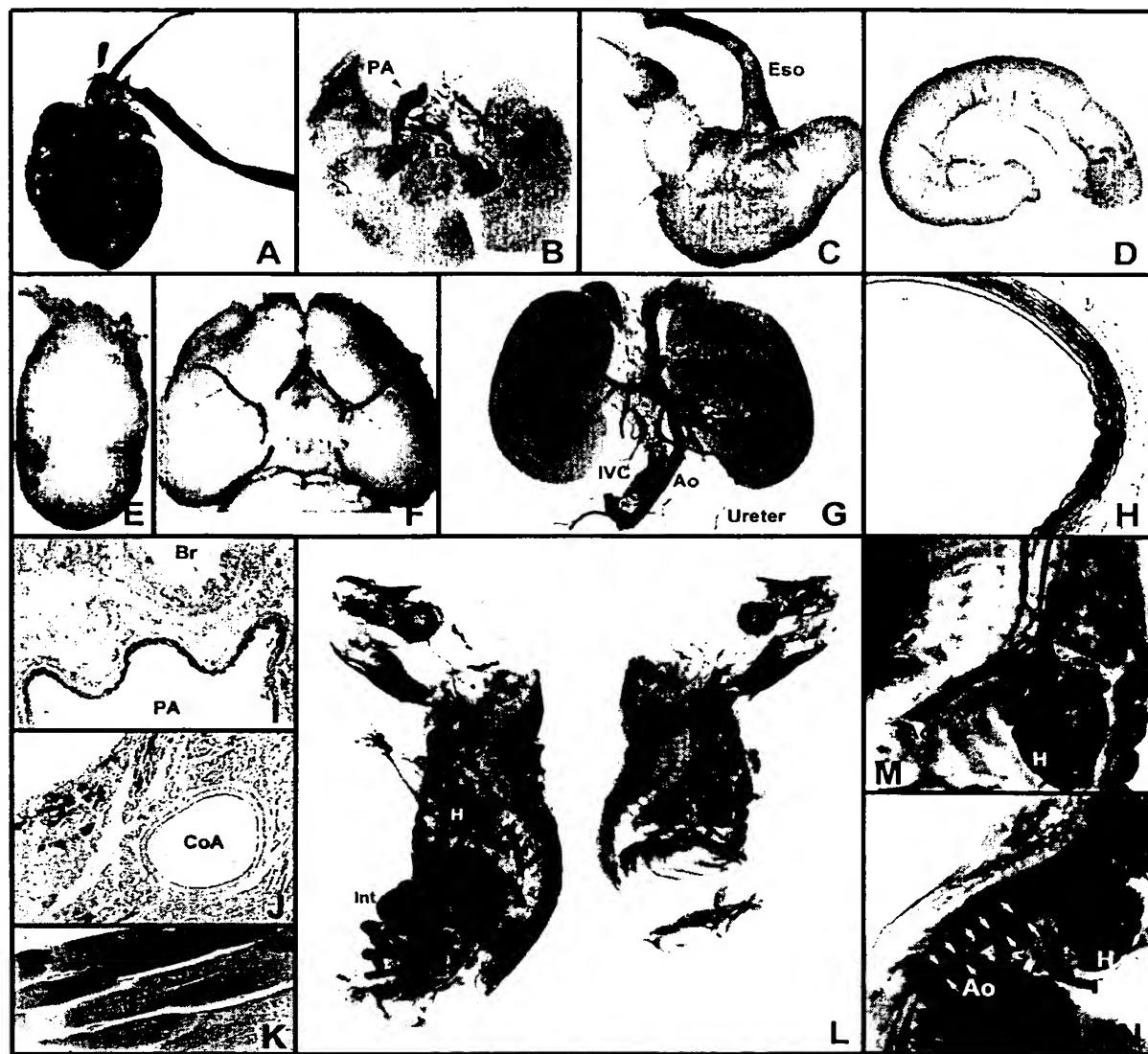


Figure 7

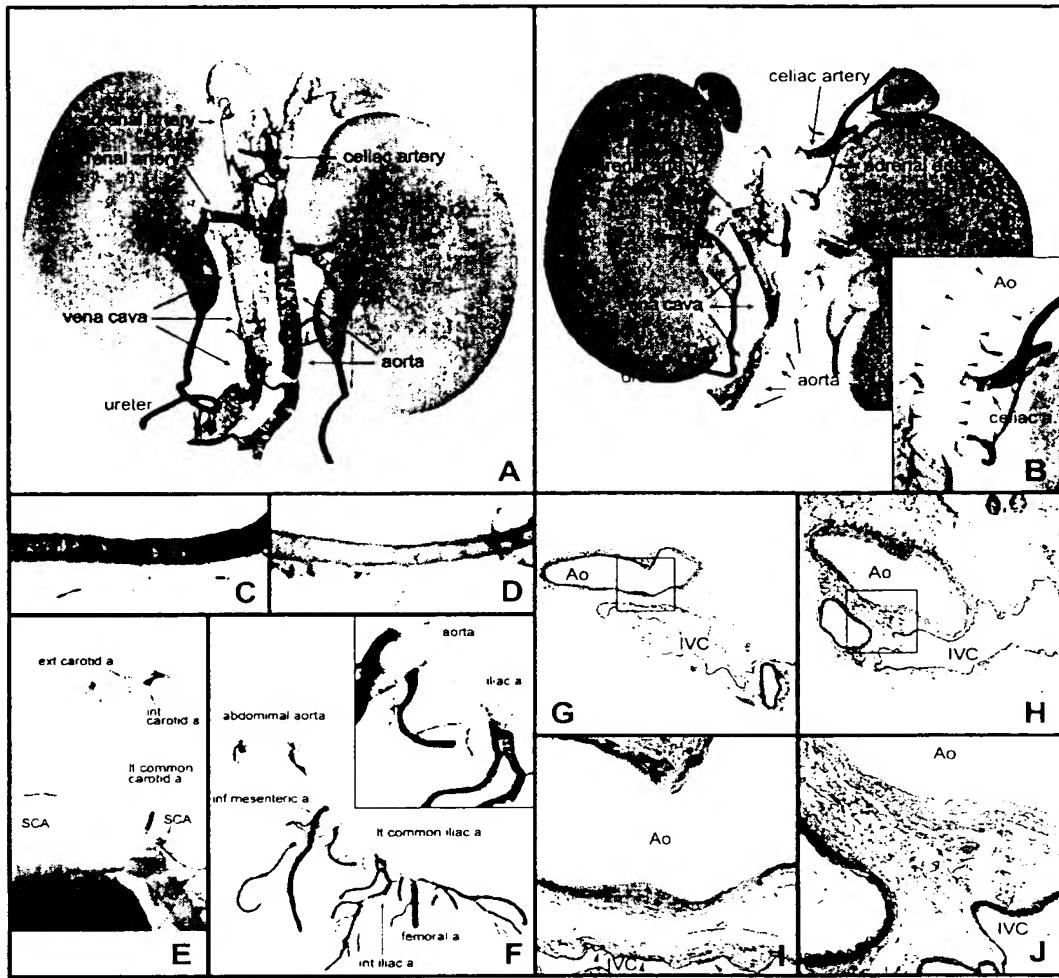
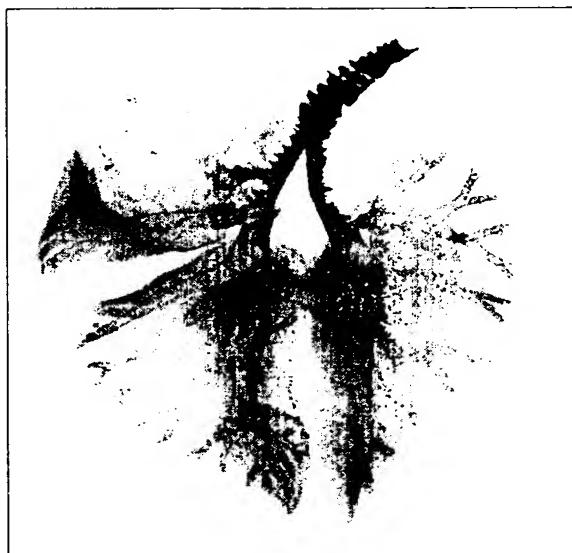


Figure. 8 Large artery-specific silencing of the reporter gene in intronic CArG mutant mice

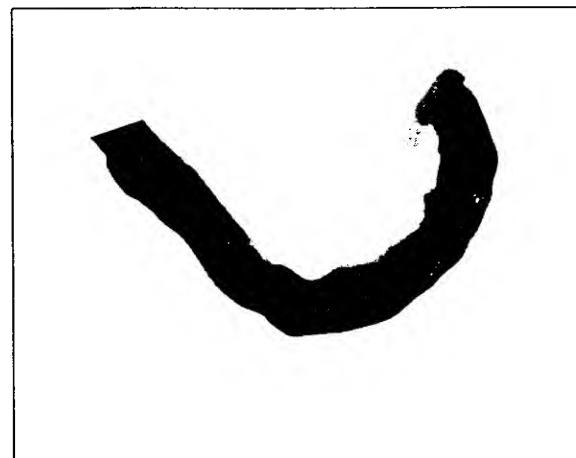
Fig. 9. Expression of the Human MHC-5.1/13.5-LacZ transgene in Adult (5-6 weeks old) Mouse Tissues Whole tissues were processed and stained for lacZ expression as previously described (Madsen et al. *Circ. Res.* 82:908-917, 1998).



Conducting airways and lungs.



Stomach, small intestine, and esophagus.

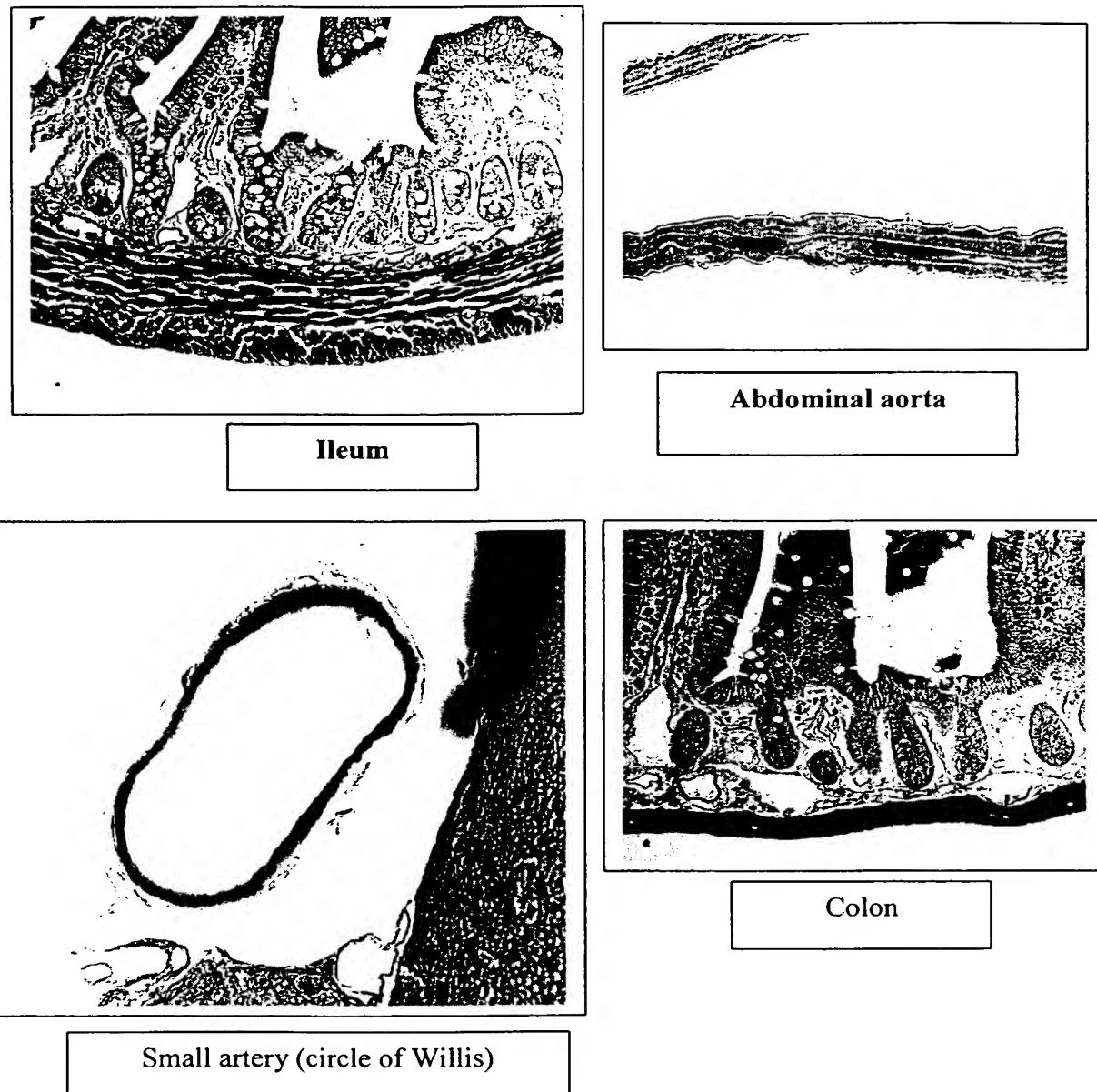


Colon.



Iliac Artery.

Figure 10: Histological Evaluation of Expression of the Human MHC-5.1/13.5-LacZ transgene in Adult (5-6 weeks old) Mouse Tissues Tissues were processed and stained for lacZ expression as previously described (Madsen et al. *Circ. Res.* 82:908-917, 1998).



SM MHC 5'-flanking sequence

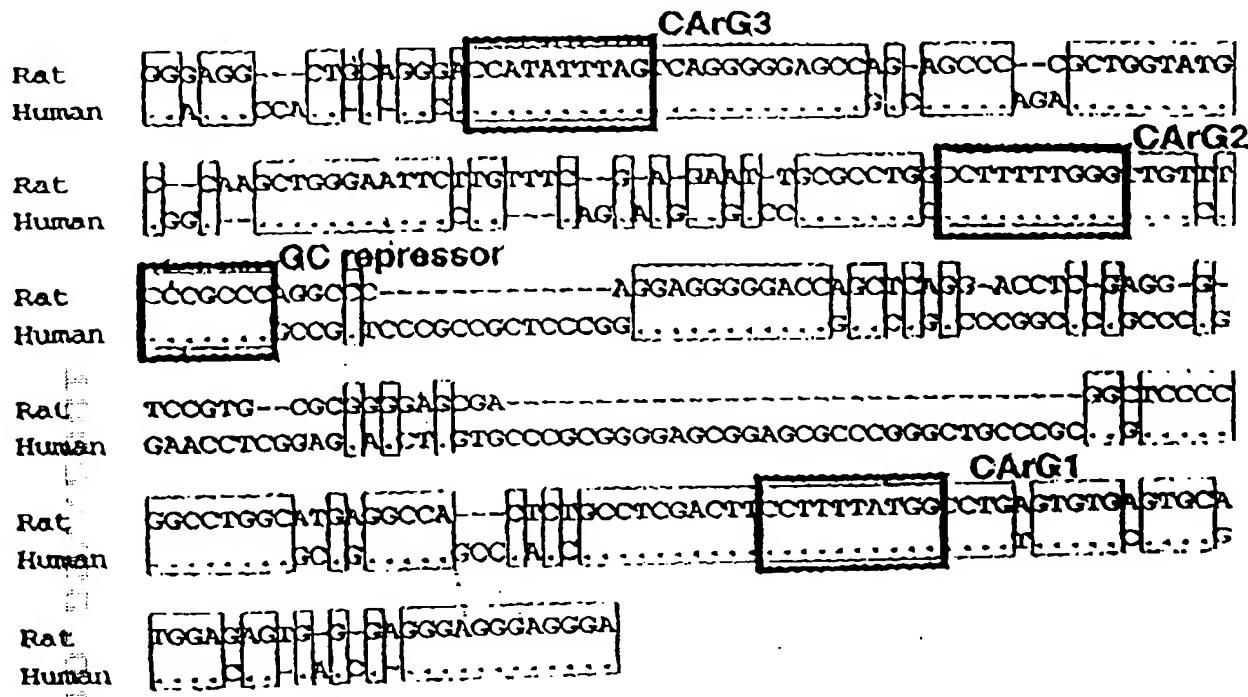


FIG. II

FIG. 12

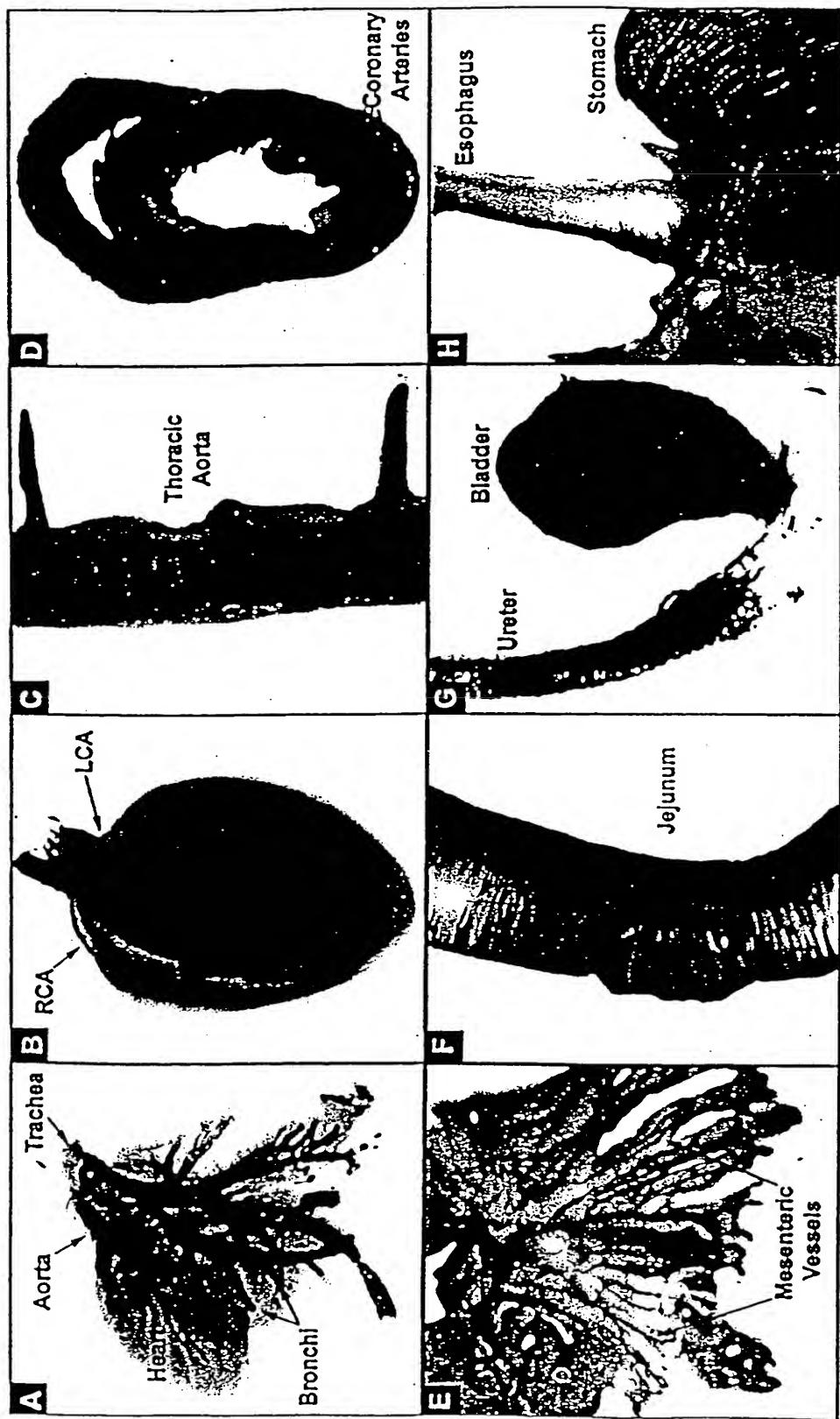
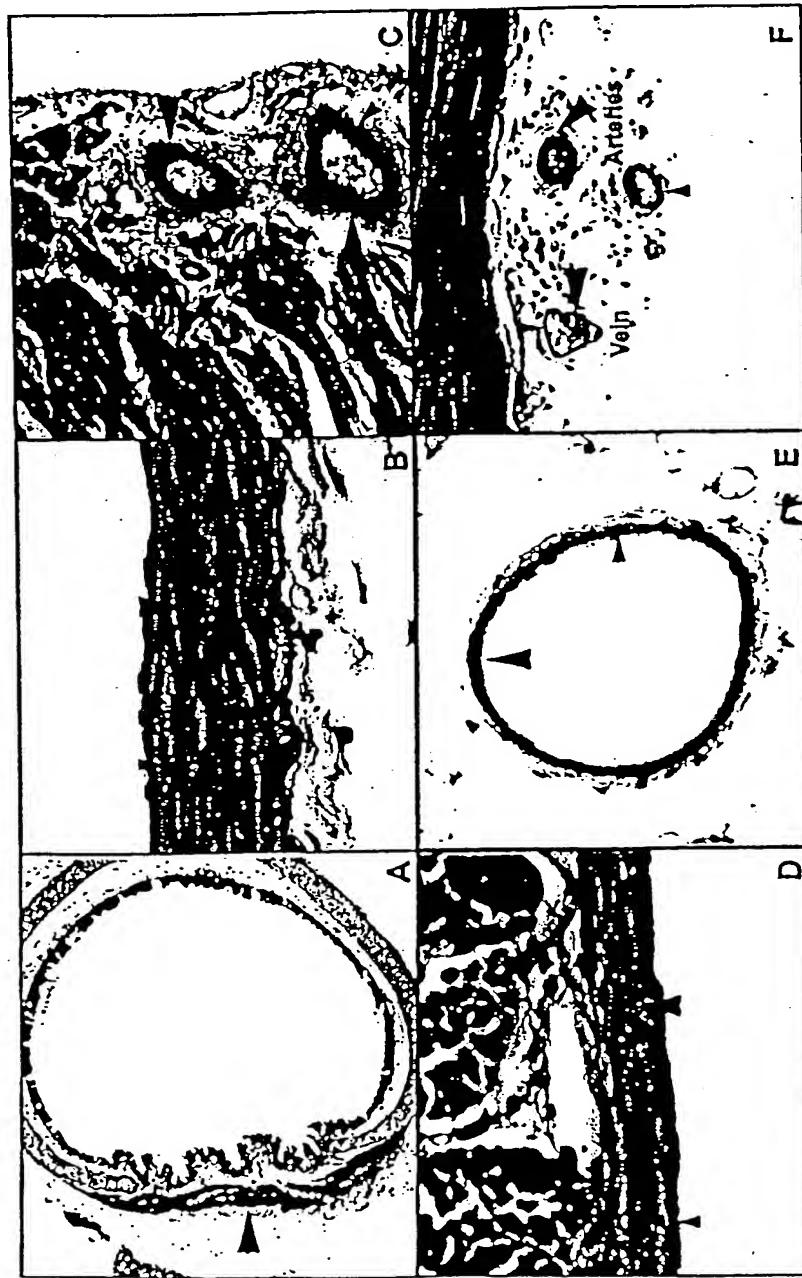


FIG. 13



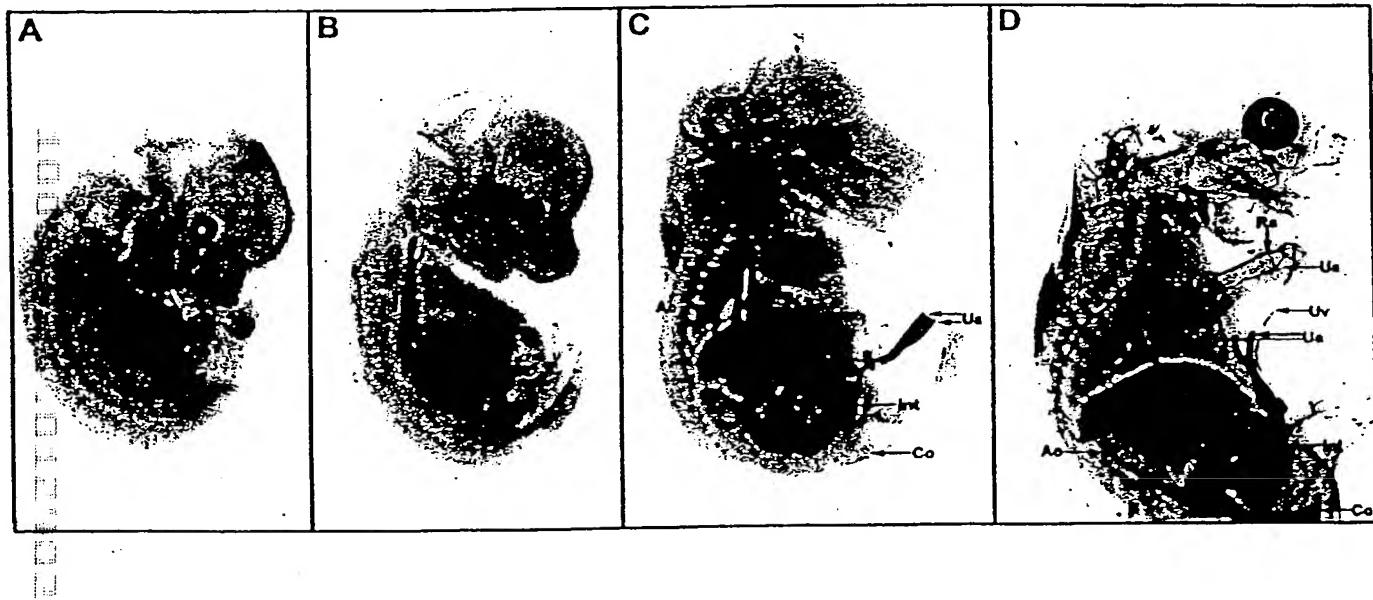


FIG. 14

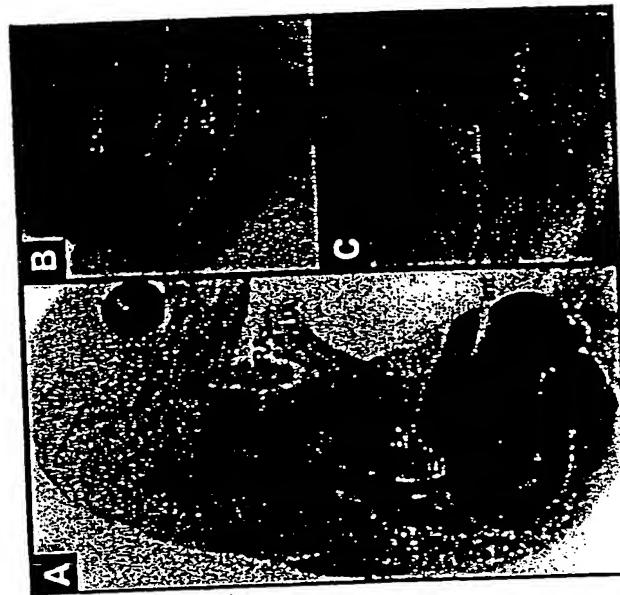


FIG. 15

SM MHC-4.2-Intron-LacZ Heart

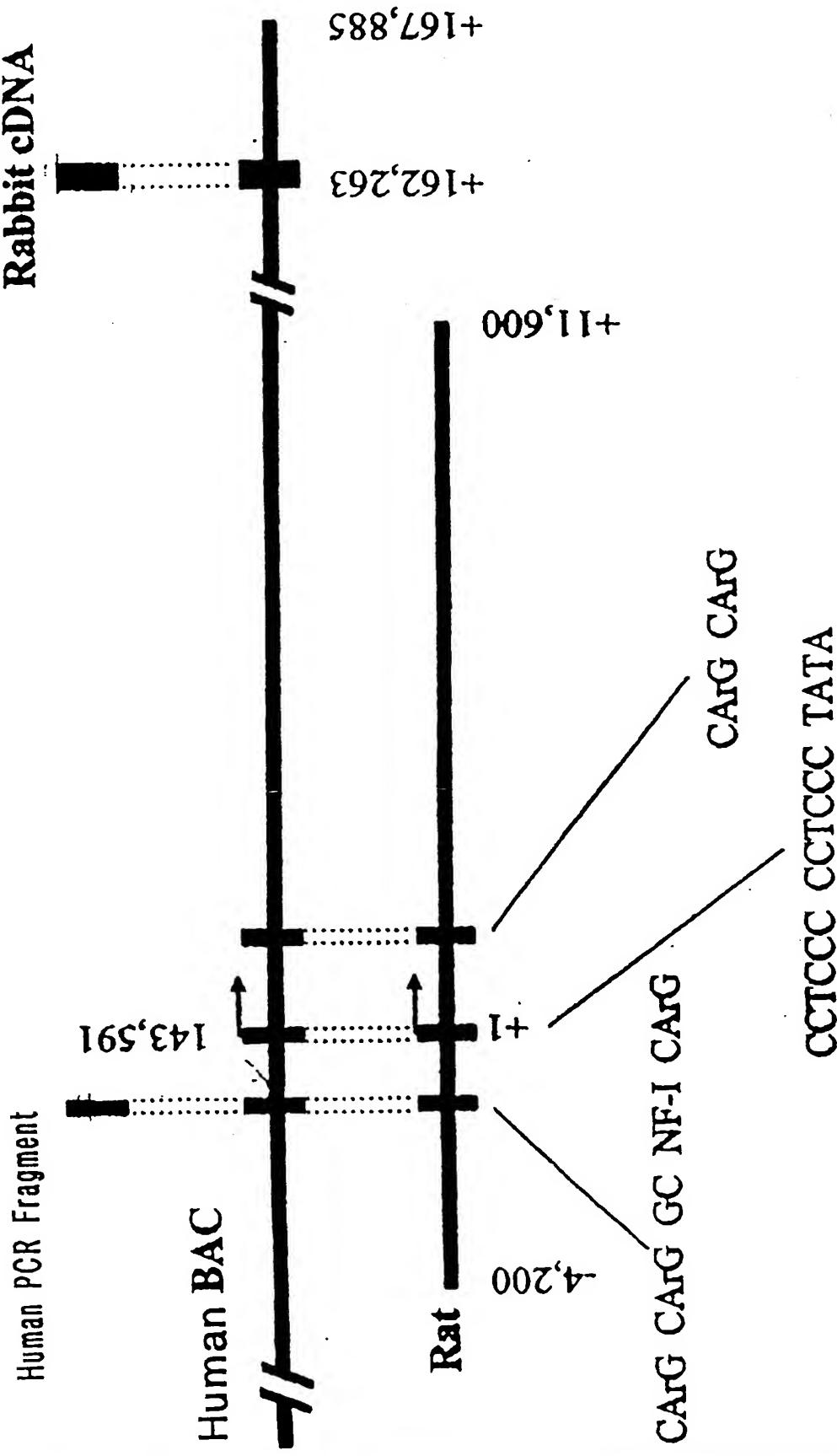
Anterior

Posterior

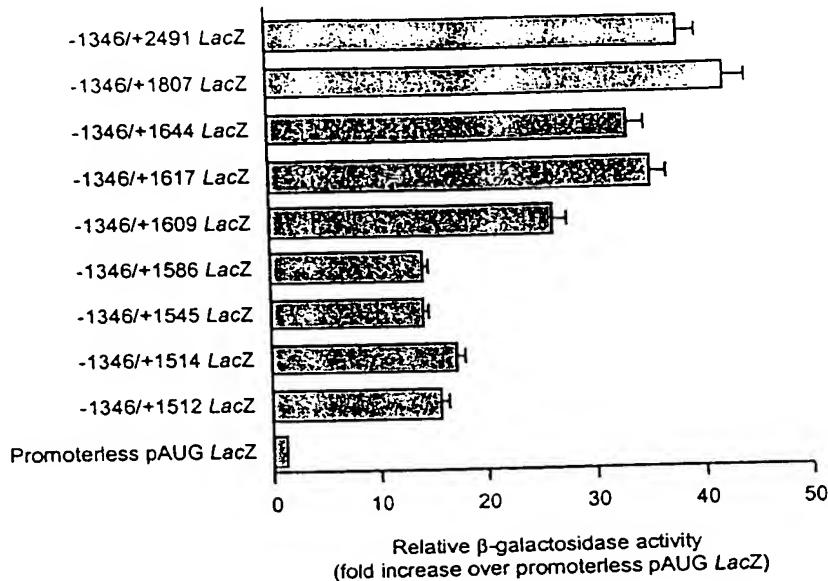


FIG. 16

FIG. 17



A



B

Rat +1422	GT GGATG TGGTAGGGTCCAG GAG GCTGGCGTGTCTCAAACATGCCCTGG
Human +1776	AG--G--C--CCA--CCGA-AG----AAC-T-AA--A--TG-G---TTTC-GA-AAGCC
Rat +1472	GCCAAGC CACCCCTGGAGAAACC TGGACTTTATTATCAGATCTGAAATAGA GCCTC
Human +1836	-----G---TTG--T--T-A-A--A--TTT-----TG--C-----TGTGT-A
Rat +1528	TTCCGTACAAGGTAGTCACTATGGAT TTATCATTACTTTCTGTGGGA-GGCTGGC
Human +1896	-----TCTGT-----TTG-----C-----G-----A-A-A
Rat +1584	TGGAGGCAGACATGCCCTGTATGGTAGTGTCTATGAGGCCATTCCCAGTCCCCCTT
Human +1956	-T-----A-----A-T-----A-C-----C-----G-C-----
Rat +1644	GGCCAATCACCCAGGCCCTTCGA TGCAG CC T G ACTGGCTTGAGTTCTGGGTACT
Human +2014	C-T--G-T-----G- -CC---C--GGT-G-TC----CCT-GGGATTT--CTA

FIG. 18

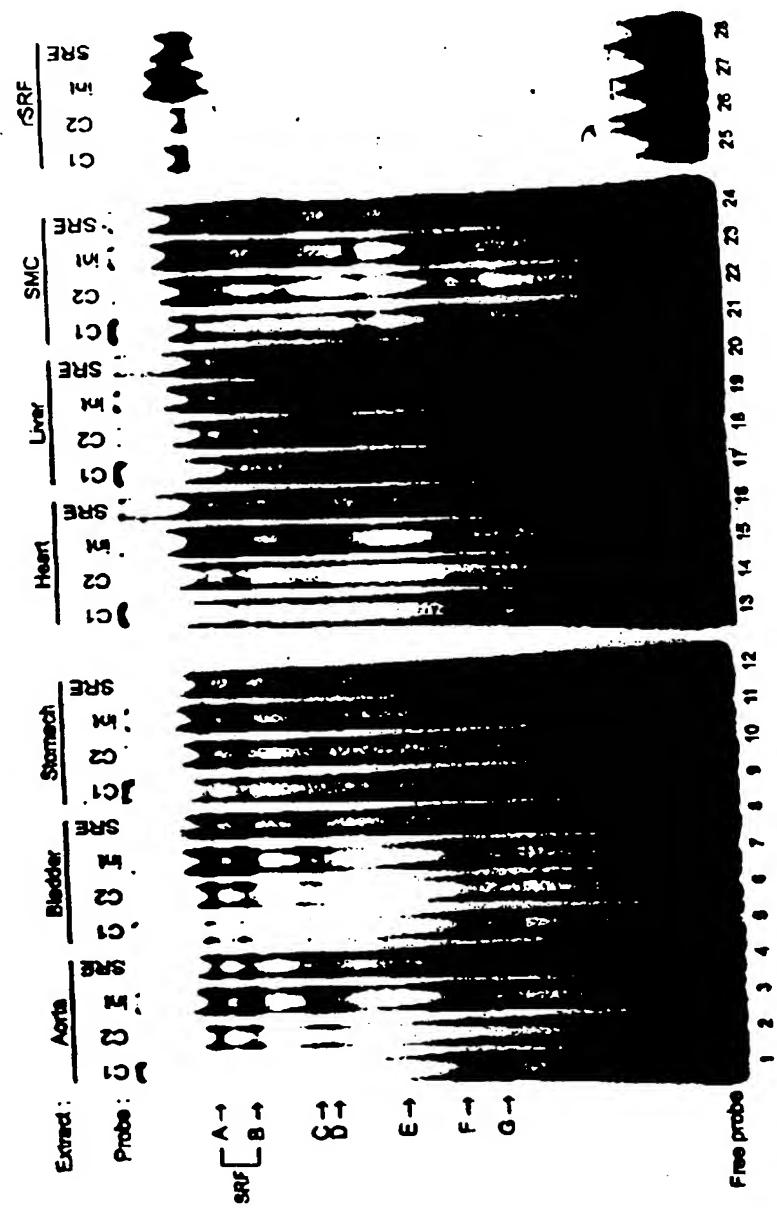


FIG. 19

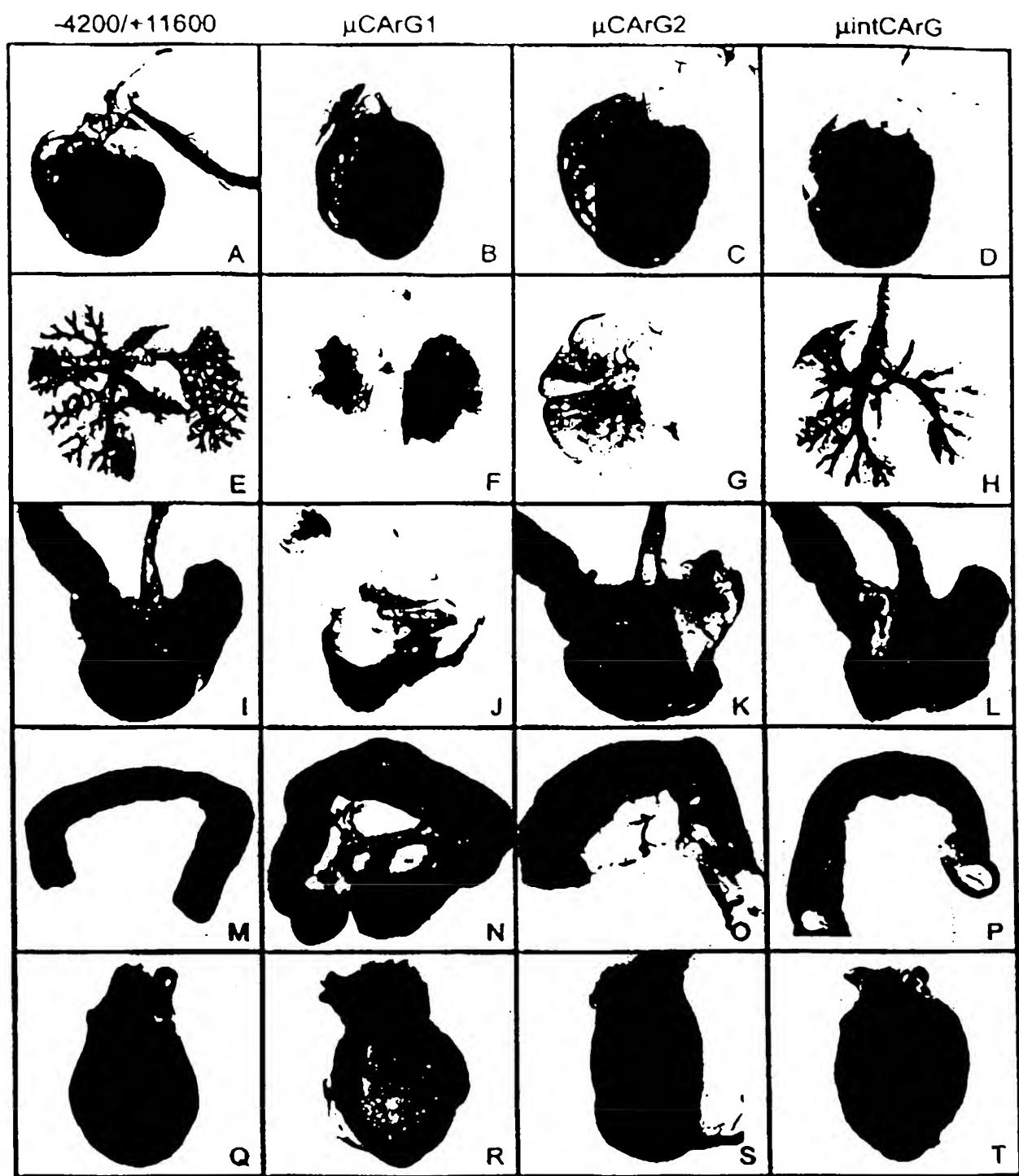


FIG. 20

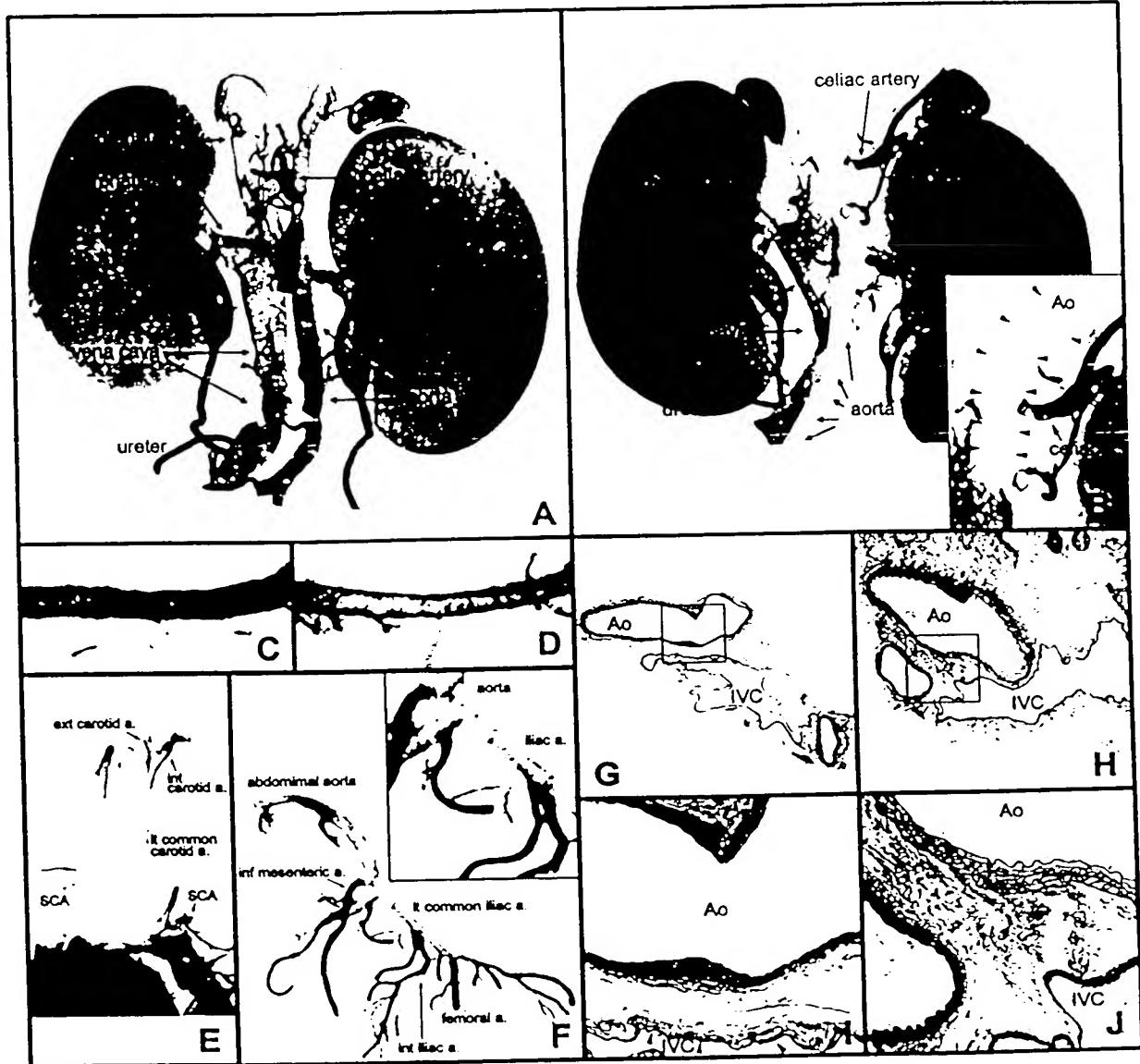


FIG. 21

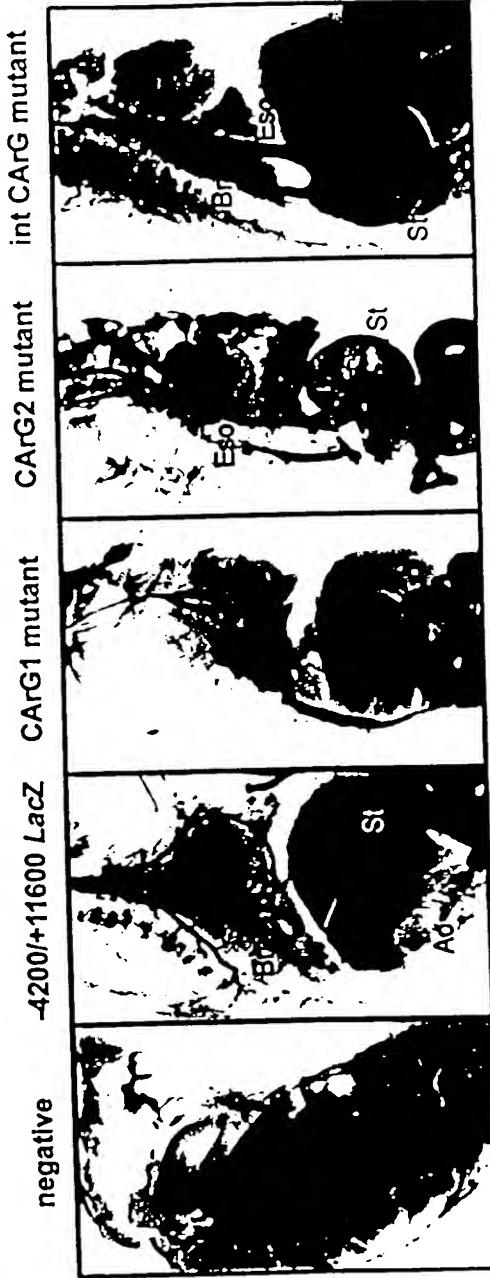


FIG. 22

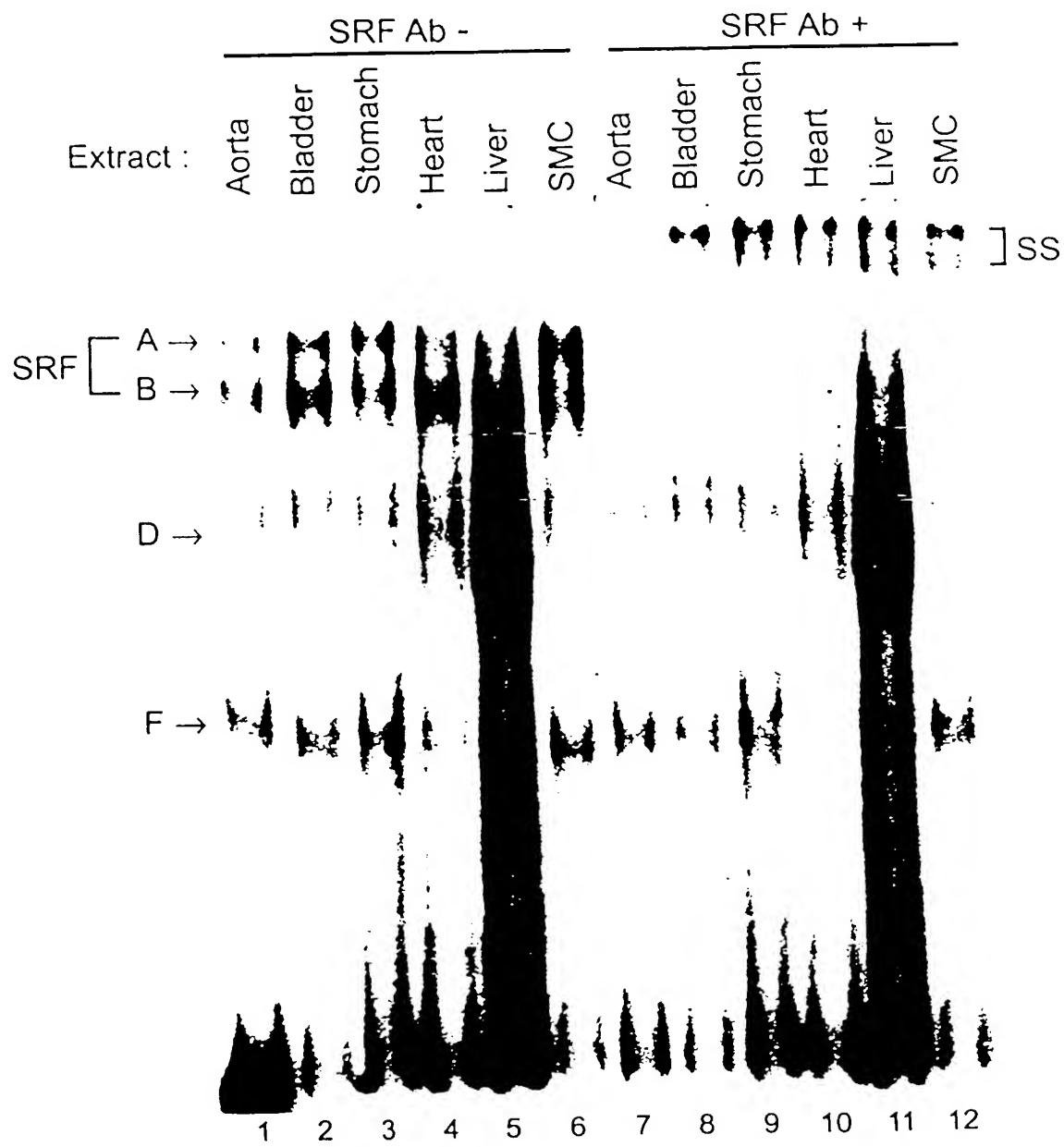


FIG. 23

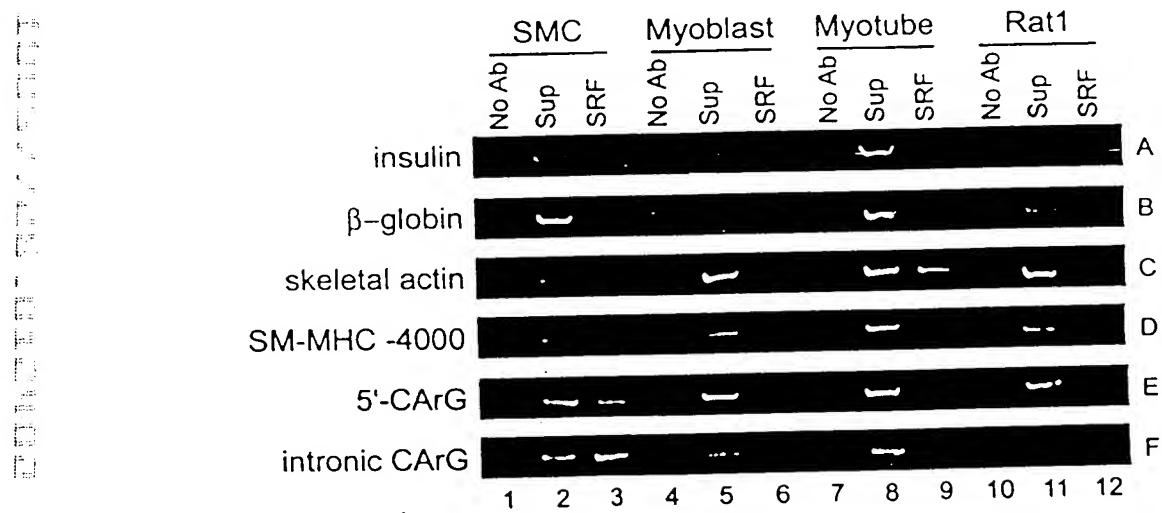


FIG. 24

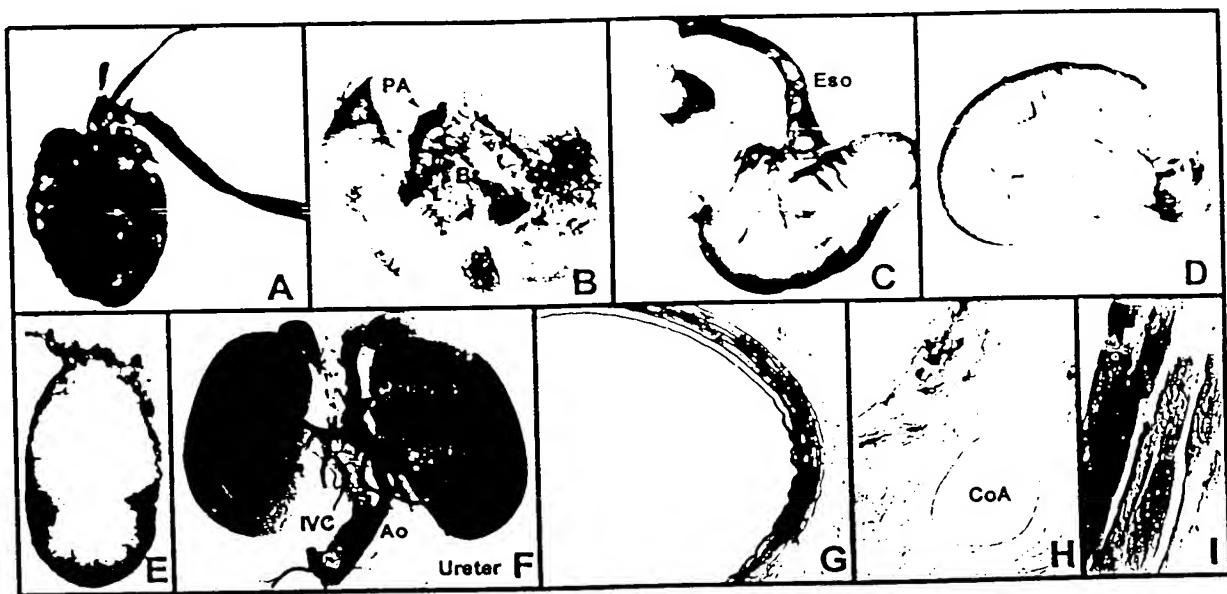


FIG. 25